

# Baltimore City Department of Public Works



STEPHANIE  
RAWLINGS-BLAKE  
MAYOR

BALTIMORE CITY

**DPW**

DEPARTMENT OF PUBLIC WORKS

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DIRECTOR



Total Maximum Daily Loads of Trash and Debris for the Middle  
Branch and Northwest Branch Portions of the Patapsco River  
Mesohaline Tidal Chesapeake Bay Segment, Baltimore City and  
County, Maryland

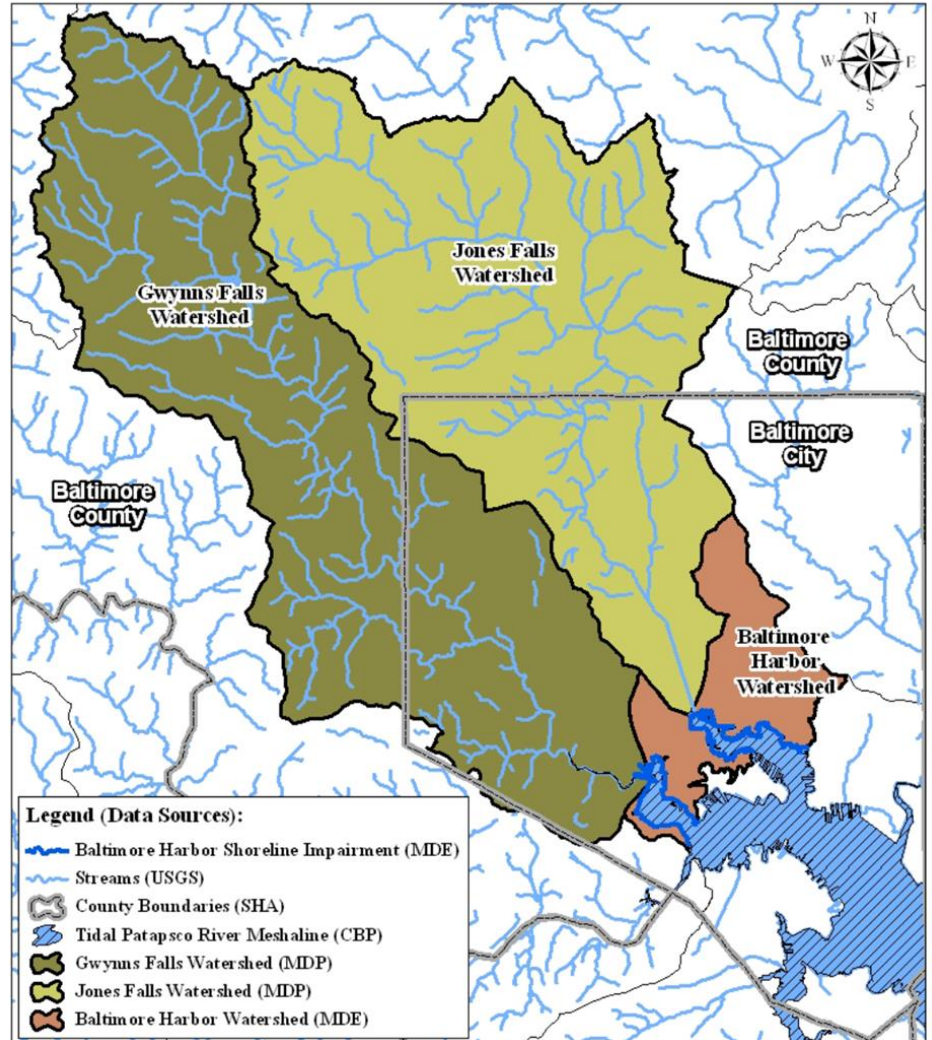
“Trash TMDL”

Stormwater Advisory Committee Discussion  
May 4, 2015



# Overview

- Approved by the EPA January 5, 2015.
- City (and Balt Co) have one year to develop an Implementation Plan
- The TMDL is for the Middle Branch and Northwest Portions of the Patapsco River
- The TMDL recognizes that trash comes from upstream, so portions of the Baltimore Harbor and entire Jones Falls and Gwynns Falls watersheds are included.



# TMDL Reduction

| Watershed         | Annual WLA<br>(lbs/yr) | Annual TMDL<br>(lb / yr removed) | Daily WLA<br>(lb / day) | Daily TMDL<br>(lbs/day removed) |
|-------------------|------------------------|----------------------------------|-------------------------|---------------------------------|
| Baltimore Harbor  | 42,869.4               | 45,012.9                         | 117.4                   | 123.3                           |
| Gwynns Falls      | 93,519.3               | 98,195.3                         | 256.2                   | 269.0                           |
| Jones Falls       | 81,107.0               | 85,162.4                         | 222.2                   | 233.3                           |
| <b>Total City</b> | <b>217,495.7</b>       | <b>228,370.6</b>                 | <b>595.8</b>            | <b>625.6</b>                    |

- ✓ The TMDL requires 100% removal of the baseline load, which is based on WEIGHT (lbs/yr removed). The baseline load is based on data collected in 2010 and 2011.
- ✓ The baseload is a combination of Waste Load Allocation (WLA), point source; Load Allocation (LA), non-point source; and Margin of Safety (MOS), 5%.
- ✓ **Only the WLAs assigned to the City's MS4 permit will be used to determine the reduction goal for compliance with the TMDL, and therefore the City's MS4 permit.**



# Trash Reduction

- The TMDL does not prescribe what measures the city should undertake to meet the 100% baseline load reduction
- Structural (trash interceptors) and non-structural (street sweeping, education and outreach) can both be employed.
- The TMDL states, “...any upstream practices that are already in place [as of 2011]...are inherently captured in this baseline rate. **Therefore, the TMDL value to be removed must be in addition to trash already being removed when the baseline sampling was conducted.**”
- **WLA calculation methodology will need to be established**
  - **What can be counted (enhanced / new practice, geography)**
  - **Methodology accounting for ‘trash’**
  - **Education and outreach**



# Schedule

| April                          | May                     | June | July                        | August      | Sept | Oct                                  | Nov               | Dec       |
|--------------------------------|-------------------------|------|-----------------------------|-------------|------|--------------------------------------|-------------------|-----------|
| 1 <sup>st</sup> draft<br>(30%) | Coordinate with<br>NGOs |      | 2 <sup>nd</sup> draft (60%) |             | NGOs | 3 <sup>rd</sup> draft/<br>MDE review | Public<br>Comment | Final WIP |
|                                | <b>SWAC</b>             |      |                             | <b>SWAC</b> |      |                                      | <b>SWAC</b>       |           |

## 60% Draft

Section 5. Implementation Plan Development

Section 6. Projects, Programs, and Partnerships

Section 7. Tracking and Reporting

Section 8. Adaptive Management

Section 9. Financial Strategy

# Preliminary Strategies

## Projects

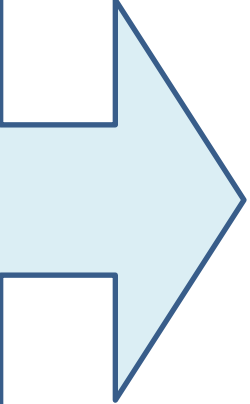
- Modified Inlets
- Debris Collectors

## Programs

- Pollution Prevention (education)
- Street and Alley Sweeping
- Preventative Inlet Cleaning

## Partnerships

- Volunteer Clean-ups
- MPA Mitigation
- Legislation
- Other (Healthy Harbor)



**228,370.6  
lbs/yr  
removed**

# Role of SWAC

- Initial reviewers as representatives of your group.
- Please share with your constituent groups and solicit feedback.
- Act as DPW's ambassadors to help people understand the expectations of what this regulation is, what this document will present, and what the end result will be.
- Feedback requested by May 29; sent to [mark.cameron@baltimorecity.gov](mailto:mark.cameron@baltimorecity.gov).

## QUESTIONS?